



Circuit Skills: LED Color Organ

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TOOLS:

- [Soldering/desoldering tools \(1\)](#)
- [Wire cutter/stripper \(1\)](#)

PARTS:

- [Color organ parts kit \(1\)](#)

SUMMARY

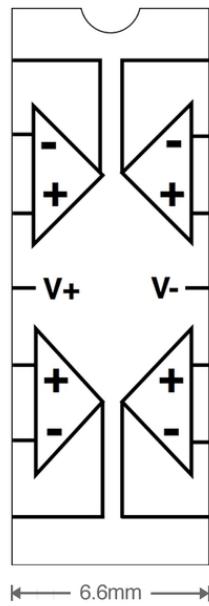
Long before the dawn of digital music, folks employed the power of the electric color organ (aka “light organ”) to add some synced visuals to their hi-fi experience. Schematics for building such a beast based on AC power and incandescent bulbs can be found fairly easily [on the web](#), but plans for comparable LED-based designs seem a bit harder to come by.

Adapted from [Aaron Cake’s 3 Channel Spectrum Analyzer](#), Collin built his own analog LED Color Organ to enhance the aural experience. The circuit uses 4 operational amplifiers plus ultra-bright 5mm LEDs to respond visually for bass, mid, and treble frequencies.

Step 1 — Circuit Skills: LED Color Organ

- The circuit uses 4 operational amplifiers plus ultra-bright 5mm LEDs to respond visually for bass, mid, and treble frequencies.

Step 2



- In order to simplify the construction process, Collin drew up and printed a label specifying the pinout for quad op amp ICs.

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